

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International publication date

18 March 2004 (18.03.2004)

PCT

(10) International publication number

WO 2004/022427 A1

(51) International patent classification⁷: B64D 23/00, A63G 31/00

Emmanuel [FR/FR]; 4, avenue Carnot, F-75017 Paris (FR).

(21) International application number: PCT/FR2003/002645

(22) International filing date: 4 September 2003 (04.09.2003)

(74) Representatives: MARTIN, Jean-Jacques, et al;
Cabinet Regimbeau, 20, rue Chazelles, F-75847 Paris
Cedex 17 (FR).

(25) Language of filing: French

(26) Language of publication: French

(30) Data relating to the priority:
02/10,916 4 September 2002 (04.09.2002) FR

(81) Designated states (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(72) Inventor; and

(75) Inventor/Applicant (*US only*): MOINEL DELALANDE,

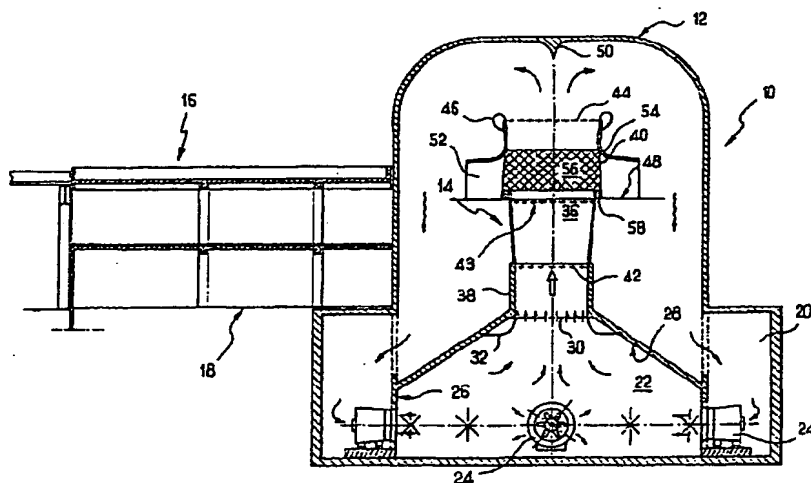
(84) Designated states (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ,

[continued on next page]

As printed

(54) Title: FREE FALL SIMULATOR

(54) Titre : SIMULATEUR DE VOL EN CHUTE LIBRE



(57) Abstract: The invention concerns a free fall simulator, characterized in that it comprises: a lower compression chamber (22) proximate the lower periphery wherefrom emerge the outputs of a plurality of ventilators (24) arranged in centripetal configuration, and at the tapered upper part of which is arranged a compression grid (30), a cyindroid chamber (36) defining a displacement space, which is located just above the compression chamber (22), and which is designed to be traversed by a homogeneous rising air stream having a gradient of constantly decreasing upward speeds.

[continued on next page]

WO 2004/022427 A1

TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For an explanation of the two-letter codes and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.

Published:

- *With International Search Report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(57) Abrégé : Le simulateur de vol en chute libre, caractérisé en ce qu'il comporte: une chambre inférieure de compression (22); au voisinage de la périphérie inférieure de laquelle débouchent les sorties d'une pluralité de ventilateurs (24) agencés selon une configuration centripète, et é la partie supérieure rétrécie de laquelle se trouve agencée une grille de compression (30); une chambre cylindroïde (36) définissant un espace d'évolution, qui est située immédiatement au-dessus de la chambre de compression (22), et qui est conçue pour être traversée par un flux homogène d'air ascensionnel présentant un gradient de vitesses régulièrement décroissantes de bas en haut.